

# Supported Scaffolds

WAC 296-874-400

## Section Contents

### YOUR RESPONSIBILITY:

#### To meet these requirements when using supported scaffolds

Make sure supported scaffolds and scaffold components meet strength requirements

WAC 296-874-40002 ..... 400-3

Prevent supported scaffolds from tipping

WAC 296-874-40004 ..... 400-3

Make sure supported scaffolds are properly supported

WAC 296-874-40006 ..... 400-5

Provide safe access for persons erecting or dismantling supported scaffolds

WAC 296-874-40008 ..... 400-6

Provide fall protection for persons erecting or dismantling supported scaffolds

WAC 296-874-40010 ..... 400-7

Meet these requirements when moving mobile scaffolds

WAC 296-874-40012 ..... 400-8

Meet these requirements when using bricklayers' square scaffolds (squares)

WAC 296-874-40014 ..... 400-9

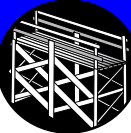
Meet these requirements when using crawling boards (chicken ladders)

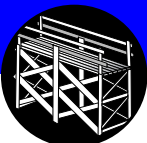
WAC 296-874-40016 ..... 400-10

Meet these requirements when using fabricated frame scaffolds (tubular welded frame scaffolds)

WAC 296-874-40018 ..... 400-11

Supported





# Supported Scaffolds

WAC 296-874-400

## Section Contents

Meet these requirements when using integral prefabricated scaffold access frames

WAC 296-874-40020 ..... 400-12

Meet these requirements when using form scaffolds and carpenter's bracket scaffolds

WAC 296-874-40022 ..... 400-14

Meet these requirements when using horse scaffolds

WAC 296-874-40024 ..... 400-15

Meet these requirements when using ladder jack scaffolds

WAC 296-874-40026 ..... 400-15

Meet these requirements when using outrigger scaffolds

WAC 296-874-40028 ..... 400-17

Meet these requirements when using pole scaffolds

WAC 296-874-40030 ..... 400-18

Meet these requirements when using pump jack scaffolds

WAC 296-874-40032 ..... 400-20

Meet these requirements when using repair bracket scaffolds

WAC 296-874-40034 ..... 400-21

Meet these requirements when using roof bracket scaffolds

WAC 296-874-40036 ..... 400-23

Meet these requirements when using step, platform, and trestle ladder scaffolds

WAC 296-874-40038 ..... 400-23

Meet these requirements when using tube and coupler scaffolds

WAC 296-874-40040 ..... 400-25

Meet these requirements when using window jack scaffolds

WAC 296-874-40042 ..... 400-29

# Supported Scaffolds

WAC 296-874-400

## Rule

### WAC 296-874-40002

#### Make sure supported scaffolds and scaffold components meet strength requirements

##### You must

- Make sure each supported scaffold and scaffold component can support, without failure, the total of its own weight plus at least 4 times the maximum intended load applied or transmitted to it.

### WAC 296-874-40004

#### Prevent supported scaffolds from tipping

##### You must

- Make sure supported scaffolds with a height to least base dimension ratio of greater than four to one (4:1), are prevented from tipping by one or more of the following:
  - Guying
  - Tying
  - Bracing
  - Other equivalent means.



##### Note:

- The least base dimension includes outriggers, if used.

##### You must

- Install guys, ties, and braces where horizontal members support both the inner and outer legs of the scaffold.

– Continued–





# Supported Scaffolds

WAC 296-874-400

## Rule

### WAC 296-874-40004 (Continued)

#### You must

- Install guys, ties, and braces:
  - According to the scaffold manufacturer's recommendations
- or**
- At all points where the following horizontal and vertical planes meet:
  - • First vertical level at a height equal to 4 times the least base dimension
  - • Subsequent vertical levels every:
    - 20 feet (6.1 m) or less for scaffolds having a width of 3 feet (0.91 m) or less
    - 26 feet (7.9 m) or less for scaffolds more than 3 feet (0.91 m) wide
  - • Horizontally at:
    - Each end of the scaffold
- and**
- Intervals of 30 feet (9.1 m) or less.



#### Note:

- The 30-foot horizontal intervals are measured from one end of the scaffold to the other.

#### You must

- Make sure the highest level of guys, ties, or braces is no further from the top of the scaffold than a distance equal to 4 times the least base dimension.
- Make sure scaffolds that have an eccentric load applied or transmitted to them, such as a cantilevered work platform, are prevented from tipping by one or more of the following:
  - Guying
  - Tying
  - Bracing
  - Outriggers
  - Other equivalent means.

# Supported Scaffolds

WAC 296-874-400

## Rule

**WAC 296-874-40006**

**Make sure supported scaffolds are properly supported**

### You must

- Make sure supported scaffold poles, legs, posts, frames, and uprights are:
  - Plumb
  - and**
  - Braced to prevent swaying or displacement.
- Make sure supported scaffold poles, legs, posts, frames, and uprights, bear on base plates that rest on:
  - Mudsills
  - or**
  - Other firm foundations such as concrete or dry, compacted soil.
- Make sure foundations are all of the following:
  - Level
  - Sound
  - Rigid
  - Capable of supporting the loaded scaffold without settling or displacement.



#### Note:

- The condition of the foundation may change due to weather or other factors. If changes occur, the foundation needs to be evaluated by a competent person to make sure it will safely support the scaffold.

### You must

- Make sure unstable objects aren't used:
  - To support scaffolds or platform units
  - or**
  - As working platforms.

**– Continued–**

Supported  
Scaffolds





# Supported Scaffolds

WAC 296-874-400

## Rule

### WAC 296-874-40006 (Continued)

#### You must

- Make sure mobile scaffolds meet these additional requirements:
  - Wheel and caster stems are pinned or otherwise secured in the scaffold legs or adjustment screws
  - Wheels and casters are locked, or equivalent means are used, to prevent movement when the scaffold is being used
  - Screw jacks or other equivalent means are used if it's necessary to level the work platform.
- Make sure front-end loaders and similar equipment used to support scaffold platforms have been specifically designed for such use by the manufacturer.



#### Reference:

- For requirements about powered industrial trucks, including forklifts, that are used to support scaffold platforms, go to Forklifts and Other Powered Industrial Trucks, Chapter 296-863 WAC.

### WAC 296-874-40008

#### Provide safe access for persons erecting or dismantling supported scaffolds

#### You must

- Provide a safe means of access for persons erecting or dismantling scaffolds if it is:
  - Feasible
  - and**
  - Does **not** create a greater hazard.

– Continued–

# Supported Scaffolds

WAC 296-874-400

## Rule

### WAC 296-874-40008 (Continued)

#### You must

- Have a competent person determine the feasibility of providing safe access.
- Make sure the determination is based on site conditions and the type of scaffold being erected or dismantled.
- Install a hook-on or attachable ladder as soon as scaffold erection has progressed to a point where it can be safely installed and used.
- Make sure crossbraces on tubular welded frame scaffolds aren't used to access or egress from the scaffold.
- Make sure the frames of tubular welded frame scaffolds that are used as climbing devices meet all of the following:
  - Create a usable ladder
  - Provide good hand holds and foot space
  - Have horizontal members that are all of the following:
    - • Parallel
    - • Level
    - • Spaced not more than 22 inches apart vertically.

### WAC 296-874-40010

#### Provide fall protection for persons erecting or dismantling supported scaffolds

#### You must

- Have a competent person determine the feasibility of providing fall protection for persons erecting or dismantling supported scaffolds.
- Provide fall protection if the installation and use of fall protection is:
  - Feasible**and**
  - Does **not** create a greater hazard.





# Supported Scaffolds

WAC 296-874-400

## Rule

**WAC 296-874-40012**

**Meet these requirements when moving mobile scaffolds**

### You must

- Make sure, before a scaffold is moved, that employees on the scaffold are made aware of the move.
  - Apply manual force being used to move a scaffold:
    - As close to the base as practicable
- and**
- Within 5 feet (1.5 m) of the supporting surface.
  - Make sure power systems used to propel mobile scaffolds have been designed for such use.
  - Make sure forklifts, trucks, similar motor vehicles, or add-on motors aren't used to propel scaffolds unless the scaffold has been designed to be used with that type of propulsion system.
  - Stabilize scaffolds to prevent tipping when they're being moved.
  - Make sure a scaffold isn't moved with employees riding on it unless all of the following are met:
    - The surface on which the scaffold is being moved is:
      - Within 3 degrees of level
- and**
- Free of pits, holes, and obstructions
  - No employee is on any part of the scaffold which extends out beyond the wheels, casters, or other supports
  - Outrigger frames, when used, are installed on both sides of the scaffold

**– Continued–**



# Supported Scaffolds

WAC 296-874-400

## Rule

### WAC 296-874-40012 (Continued)

#### You must

- The power system, if used:
  - Applies the propelling force directly to the wheels**and**
  - Produces a speed of one foot per second (.3 mps) or less
- The height of the scaffold:
  - Isn't more than 2 times the least base dimension**or**
  - The scaffold is designed and constructed to meet or exceed nationally recognized stability test requirements, such as those listed in ANSI/SIA A92.5, Boom-Supported Elevating Work Platforms, and ANSI/SIA A92.6, Self-Propelled Elevating Work Platforms.

### WAC 296-874-40014

#### Meet these requirements when using bricklayers' square scaffolds (squares)

#### You must

- Reinforce wood scaffolds with gussets on both sides of each corner.
- Make sure diagonal braces are installed:
  - On all sides of each square
  - Between squares on the front and back sides of the scaffold
  - Extending from the bottom of each square to the top of the next square.

– Continued–





# Supported Scaffolds

WAC 296-874-400

## Rule

### WAC 296-874-40014 (Continued)

#### You must

- Make sure scaffolds meet all of the following:
    - Are no more than 3 tiers high
    - Are constructed and arranged so that each square rests directly above another square
    - The upper tiers:
      - Stand on a continuous row of planks laid across the next lower tier
- and**
- Are nailed down or otherwise secured to prevent displacement.

### WAC 296-874-40016

#### Meet these requirements when using crawling boards (chicken ladders)

#### You must

- Make sure crawling boards (chicken ladders) extend from the roof peak to the eaves when used for roof construction, repair, or maintenance.
  - Secure crawling boards (chicken ladders) to the roof by using either:
    - Ridge hooks
- or**
- Means that meet equivalent criteria, such as strength and durability.



#### Reference:

- There are specific fall protection requirements for employees using crawling boards (chicken ladders). Go to WAC 296-874-20056.

# Supported Scaffolds

WAC 296-874-400

## Rule

### WAC 296-874-40018

#### Meet these requirements when using fabricated frame scaffolds (tubular welded frame scaffolds)

##### You must

- Make sure scaffolds over 125 feet (38.0 m) high above their base plates are:
  - Designed by a registered professional engineer**and**
  - Constructed and loaded as specified in the design.
- Brace frames and panels using crossbraces, horizontal braces, diagonal braces, or a combination thereof to secure vertical members together laterally.
- Make sure the length of the crossbraces will:
  - Automatically square and align the vertical members**and**
  - Make the scaffold plumb, level, and square.
- Secure all brace connections.
- Join frames and panels together vertically by using one of the following:
  - Coupling pins
  - Stacking pins
  - Equivalent means.
- Use pins or other equivalent means to lock scaffold frames or panels together vertically where uplift may occur.
- Make sure brackets used to support cantilevered loads are all of the following:
  - Seated with side-brackets parallel to the frames and end-brackets at 90 degrees to the frames
  - Not bent or twisted from these positions
  - Used only to support persons.

– Continued–

Supported  
Scaffolds





# Supported Scaffolds

WAC 296-874-400

## Rule

### WAC 296-874-40018 (Continued)



#### Exemption:

- Brackets may be used to support cantilevered loads other than personnel if the scaffold has been:
  - Designed for other loads by a qualified engineer
  - and**
  - Built to withstand the tipping forces caused by those loads.

#### You must

- Leave existing platforms undisturbed until new end frames have been set in place and braced, then move the platforms to the next level.

### WAC 296-874-40020

#### Meet these requirements when using integral prefabricated scaffold access frames

#### You must

- Make sure integral prefabricated scaffold access frames meet all of the following:
  - Have been specifically designed and constructed to be used as ladder rungs
  - Have a rung length of at least 8 inches (20 cm)
  - Have a maximum spacing between rungs of 16-3/4 inches (43 cm)
  - Are uniformly spaced within each frame section
  - Have rest platforms at least every 20 feet (6.1 m) on all supported scaffolds more than 24 feet (7.3 m) high.



#### Note:

- Non uniform rung spacing caused by joining end frames together is allowed, provided the resulting spacing doesn't exceed 16-3/4 inches (43 cm).

– Continued–

# Supported Scaffolds

WAC 296-874-400

## Rule

Supported  
Scaffolds



### WAC 296-874-40020 (Continued)

#### You must

- Make sure, when panels with rungs that are less than 11-1/2 inches long are used as work platforms, that employees use either:
  - A positioning device
- or**
- A personal fall arrest system.



#### Reference

- For personal fall arrest system requirements in this chapter, go to WAC 296-874-20058.
- For construction activities, go to Fall Restraint and Fall Arrest, Part C-1, in Safety Standards for Construction Work, Chapter 296-155 WAC.



# Supported Scaffolds

WAC 296-874-400

## Rule

**WAC 296-874-40022**

**Meet these requirements when using form scaffolds and carpenter's bracket scaffolds**

### You must

- Secure folding-type metal brackets that have been extended for use, with:
  - Bolts

**or**

  - Locking-type pins.
- Make sure wooden bracket-form scaffolds are an integral part of the form panel.
- Attach each bracket, other than those for wooden bracket-form scaffolds, to the supporting formwork or structure by using one or more of the following:
  - Nails
  - A metal stud attachment device
  - Welding
  - Hooking over a secured structural supporting member, with the form wales either:
    - Bolted to the form

**or**

    - Secured by snap ties or tie bolts extending through the form and securely anchored
  - For carpenters' bracket scaffolds only, using a bolt extending through to the opposite side of the structure's wall.

# Supported Scaffolds

WAC 296-874-400

## Rule

Supported  
Scaffolds



### WAC 296-874-40024

#### Meet these requirements when using horse scaffolds

##### You must

- Make sure horse scaffolds aren't constructed or arranged higher than 2 tiers or 10 ft. (3.0 m), whichever is less.
- Do all of the following if horses are arranged in tiers:
  - Place each horse directly over the horse in the tier below
  - Nail down or otherwise secure the legs of each horse to prevent displacement
  - Crossbrace each tier.

### WAC 296-874-40026

#### Meet these requirements when using ladder jack scaffolds

##### You must

- Make sure platform height isn't higher than 20 feet (6.1 m).
- Make sure ladder jacks are designed and constructed so they rest:
  - On the side rails and ladder rungs together
  - or**
  - Only on the rungs.
- Make sure ladder jacks that rest on rungs only have a bearing area that includes a length of at least 10 inches (25.4 cm) on each rung.

– Continued–



# Supported Scaffolds

WAC 296-874-400

## Rule

### WAC 296-874-40026 (Continued)

#### You must

- Make sure ladders used to support ladder jacks are:
  - Type I (250 lbs. rated capacity) or Type IA (300 lbs. rated capacity)**and**
  - Are placed, fastened, or equipped with devices to prevent slipping



#### Note:

- Ladders with a duty rating or weight capacity greater than a Type I ladder (250 lbs.) satisfy the requirement to use Type I or IA ladder.
- Make sure job-made ladders aren't used to support ladder jack scaffolds.
- Make sure scaffold platforms aren't bridged together.



#### Reference:

- There are specific fall protection requirements for employees using ladder jack scaffolds. Go to WAC 296-874-20056.
- Requirements for wood and metal ladders for general industry activities are found in other chapters:
  - Portable Ladders: Metal and Wooden, WAC 296-800-290, are found in the Safety and Health Core Rules, Chapter 296-800 WAC
  - Portable Wood Ladders, WAC 296-24-780, and Portable Metal Ladders, WAC 296-24-795, are found in, Working Surfaces, Guarding Floors and Wall Openings, Ladders, Part J-1, in the General Safety and Health Standards, Chapter 296-24 WAC.
- For construction activities, go to Ladders, WAC 296-155-480, in the Safety Standards for Construction Work, Chapter 296-155 WAC.



# Supported Scaffolds

WAC 296-874-400

## Rule

**WAC 296-874-40028**

**Meet these requirements when using outrigger scaffolds**

### You must

- Make sure outrigger scaffolds and scaffold components are:
  - Designed by a registered professional engineer**and**
  - Constructed and loaded as specified in the design.
- Make sure the part of the outrigger beam from the fulcrum point to the **inboard** end (farthest point of anchorage) is at least 1-1/2 times longer than the part from fulcrum point to the **outboard** end (the platform side).
- Place I-beam or channel shaped outrigger beams so that the web section is vertical.
- Make sure the fulcrum point of outrigger beams rests on secure bearings at least 6 inches (15.2 cm) in each horizontal dimension.
- Make sure outrigger beams are:
  - Secured in place to prevent movement**and**
  - Securely braced at the fulcrum point against tipping.
- Securely anchor the inboard ends of outrigger beams by using one or both of the following:
  - Braced struts bearing against sills that are in contact with the overhead beams or ceiling**or**
  - Tension members secured to the floor joists below.
- Securely brace the entire supporting structure to prevent any horizontal movement.
- Nail, bolt, or otherwise secure platform units to the outriggers to prevent platform displacement. Platform units must extend to within 3 inches of the building wall.





# Supported Scaffolds

WAC 296-874-400

## Rule

**WAC 296-874-40030**

**Meet these requirements when using pole scaffolds**

### You must

- Make sure pole scaffolds over 60 feet high are:
  - Designed by a registered professional engineer
  - and**
  - Constructed and loaded as specified in the design.
- Leave existing platforms undisturbed until new bearers have been set in place and braced before moving the platforms to the new level.
- Install bracing on double-pole scaffolds as follows:
  - Crossbracing between the inner and outer sets of poles
  - Diagonal bracing in both directions across the entire outside face of the scaffold
  - Diagonal bracing in both directions across the entire inside face of scaffolds that are used to support loads equivalent to a uniformly distributed load of 50 lbs. (222 kg) or more per square foot (929 sq. cm).
- Install diagonal bracing on single pole scaffolds in both directions across the entire outside face of the scaffold.
- Make sure runners meet all of the following:
  - Are installed on edge
  - Extend over a minimum of 2 poles
  - Are supported by bearing blocks securely attached to the poles.

**– Continued–**

# Supported Scaffolds

WAC 296-874-400

## Rule

### WAC 296-874-40030 (Continued)

#### You must

- Make sure bearers are:
  - Installed on edge**and**
  - Extend a minimum of 3 inches (7.6 cm) over the outside edges of runners.
- Make sure runners, bearers, and braces aren't spliced between poles.
- Make sure wood poles that are spliced together meet both of the following:
  - The ends of the poles at the splice:
    - Are square**and**
    - The upper section rests squarely on the lower section
  - Wood splice plates are provided that meet all of the following:
    - Are installed on at least 2 adjacent sides
    - Extend at least 2 feet (0.6 m) on either side of the splice
    - Overlap the abutted ends equally
    - Have the same cross-sectional areas as the pole.



#### Note:

- Splice plates of material other than wood may be used if they are of equivalent strength.





# Supported Scaffolds

WAC 296-874-400

## Rule

WAC 296-874-40032

**Meet these requirements when using pump jack scaffolds**

### You must

- Make sure pump jack brackets, braces, and accessories are made from metal plates and angles.
- Make sure pump jack brackets have 2 positive gripping mechanisms to prevent any failure or slippage.
- Secure poles to the structure using rigid triangular bracing or the equivalent located at all of the following:
  - Top
  - Bottom
  - Other points on the pole as necessary.
- Do **both** of the following when the pump jack has to pass bracing that's already installed:
  - Install an additional brace approximately 4 feet (1.2 m) above the brace to be passed
  - Leave it in place until:
    - The pump jack has been moved
    - and**
    - The original brace is reinstalled.
- Make sure work benches aren't used as scaffold platforms.



#### Note:

- A work bench may be used as a toprail only if it meets the toprail requirements in, Make sure guardrail systems meet these requirements, WAC 296-874-20064.

### You must

- Make sure wood poles used with pump jack scaffolds are:
  - Straight grained
  - and**
  - Free of shakes, large loose or dead knots, and other defects which might impair strength.

– Continued–

# Supported Scaffolds

WAC 296-874-400

## Rule

Supported  
Scaffolds



### WAC 296-874-40032 (Continued)

#### You must

- Make sure wood poles that are constructed of 2 continuous lengths are joined together with the seam parallel to the bracket.
- Install a mending plate at all splices to develop the full strength of the member when splicing two-by-fours together to make a pole.

### WAC 296-874-40034

#### Meet these requirements when using repair bracket scaffolds

#### You must

- Make sure brackets are all of the following:
  - Secured in place by at least one wire rope that's at least 1/2 inch (1.27 cm) in diameter
  - Attached to the securing wire rope by a positive locking device, or equivalent, that will prevent the bracket from being unintentionally detached from the rope
  - Provided with a shoe, heel block, foot, or a combination that:
    - Is located at the contact point between the supporting structure and the bottom of the bracket

**and**

  - Will prevent lateral movement of the bracket.
- Secure the platforms to the brackets in a way that prevents:
  - The platforms from separating from the brackets

**and**

  - The platforms or brackets from moving on a completed scaffold.

– Continued–



# Supported Scaffolds

WAC 296-874-400

## Rule

### WAC 296-874-40034 (Continued)

#### You must

- Make sure wire rope placed around the structure to provide a safe anchorage for personal fall arrest systems used by employees erecting or dismantling scaffolds:
  - Is at least 5/16 inch (0.8 cm) in diameter

**and**

  - Provides an anchorage that meets the requirements of WAC 296-874-20058.
    - For construction activities, go to Fall Restraint and Fall Arrest, Part C-1, in the Safety Standards for Construction Work, Chapter 296-155 WAC.
- Make sure each wire rope used for securing brackets in place or as an anchorage for personal fall arrest systems is all of the following:
  - Protected from damage due to contact with edges, corners, protrusions, or other parts of the supporting structure or scaffold components
  - Tensioned by a turnbuckle or equivalent means. Turnbuckles must be:
    - At least one inch (2.54 cm) in diameter

**and**

    - Connected to the other end of its rope by an eye splice thimble that's sized appropriate to the turnbuckle
  - **Not** used with U-bolt wire rope clips.
- Make sure materials aren't dropped to the outside of the supporting structure.
- Erect the scaffold by progressing around the structure in only one direction.

# Supported Scaffolds

WAC 296-874-400

## Rule

Supported  
Scaffolds



### WAC 296-874-40036

#### Meet these requirements when using roof bracket scaffolds

##### You must

- Make sure scaffold brackets meet all of the following:
  - Are constructed to fit the pitch of the roof
  - Provide a level support for the platform
  - Are anchored in place by nails.



##### Note:

- If it's not practical to use nails to anchor brackets, secure them in place with first grade manila rope of at least 3/4 inch (1.9 cm) diameter, or equivalent.

### WAC 296-874-40038

#### Meet these requirements when using step, platform and trestle ladder scaffolds

##### You must

- Make sure ladders used to support step, platform, and trestle ladder scaffolds are:
  - Type I (250 lb. rated capacity) or Type IA (300 lb. rated capacity)**and**
  - Placed, fastened, or equipped with devices to prevent slipping.



##### Note:

- Ladders with a duty rating or weight capacity greater than a Type I ladder (250 lbs.) satisfy the requirements to use a Type I or Type IA ladder.

##### You must

- Make sure job-made ladders aren't used to support step, platform, and trestle ladder scaffolds.

– Continued–



# Supported Scaffolds

WAC 296-874-400

## Rule

### WAC 296-874-40038 (Continued)

#### You must



#### Reference:

- There are specific fall protection requirements for employees using ladder jack scaffolds. Go to WAC 296-874-20056.
- Requirements for wood and metal ladders are found in other chapters:
  - For general industry activities, go to the following:
    - .. • The Safety and Health Code Rules, Chapter 296-800 WAC, and find Portable Ladders: Metal and Wooden, WAC 296-800-290
    - .. Working Surfaces, Guarding Floors and Wall Openings, Ladders, Chapter 296-24 WAC, Part J-1, and find Portable Wood Ladders, WAC 296-24-780, **and** Portable Metal Ladders, WAC 296-24-795
  - For construction activities, go to the Safety Standards for Construction Work, and find Ladders, WAC 296-155-480.

#### You must

- Make sure scaffold platforms aren't placed higher than the second highest rung or step of the ladder supporting the platform.
- Make sure scaffold platforms aren't bridged together.



# Supported Scaffolds

WAC 296-874-400

## Rule

### WAC 296-874-40040

#### Meet these requirements when using tube and coupler scaffolds

##### You must

- Make sure tube and coupler scaffolds over 125 feet high are:
  - Designed by a registered professional engineer**and**
  - Constructed and loaded as specified in the design.
- Leave existing platforms undisturbed until new bearers have been set in place and braced before moving the platforms to the new level.
- Install crossbracing across the width of the scaffold that meets all of the following:
  - Bracing is installed at:
    - Each end of the scaffold**and**
    - At least at every third set of posts horizontally and every fourth runner vertically.
  - Bracing extends diagonally from the:
    - Outer posts or runners upwards to the next inner posts or runners**and**
    - Inner posts or runners upwards to the next outer posts or runners.
- Install building ties:
  - At the bearer levels between the crossbracing**and**
  - At locations specified in WAC 296-874-40004.

– Continued–

Supported  
Scaffolds





# Supported Scaffolds

WAC 296-874-400

## Rule

### WAC 296-874-40040 (Continued)

#### You must

- Install longitudinal bracing on straight run scaffolds as follows:
  - Diagonally in both directions across the inner and outer rows of posts
  - From the base of the end posts upward to the top of the scaffold at approximately a 45 degree angle
  - As close as possible to the intersection of the bearer and post or runner and post
  - If the scaffold is longer than it is tall, repeat the bracing beginning at every fifth post
  - If the scaffold is taller than its length, install the bracing:
    - From the base of the end posts upward to the opposite end posts
    - and**
    - In alternating directions until reaching the top of the scaffold.
- Attach bracing to the runners as close to the post as possible, if bracing can't be attached to the post.
- Make sure bearers meet all of the following:
  - Are installed transversely between posts
  - If the bearer is coupled to the post, have the inboard coupler bear directly on the runner coupler
  - If the bearer is coupled to the runners, have the couplers as close to the posts as possible
  - Extend bearers beyond the posts and runners
  - Provide full contact with the coupler
  - The bottom bearers are located as close to the base as possible.

– Continued–

# Supported Scaffolds

WAC 296-874-400

## Rule

### WAC 296-874-40040 (Continued)

#### You must

- Make sure runners meet all of the following:
  - Are installed along the length of the scaffold
  - Are located on both the inside and outside posts at the same height
  - Are interlocked on straight runs to form continuous lengths and are coupled to each post
  - The bottom runners are located as close to the base as possible.



#### Note:

- Tube and coupler guardrails and midrails installed on outside posts can be used in lieu of outside runners.

#### You must

- Make sure couplers are made of a structural metal, such as drop-forged steel, malleable iron, or structural grade aluminum.
- Prohibit using couplers made of gray cast iron.





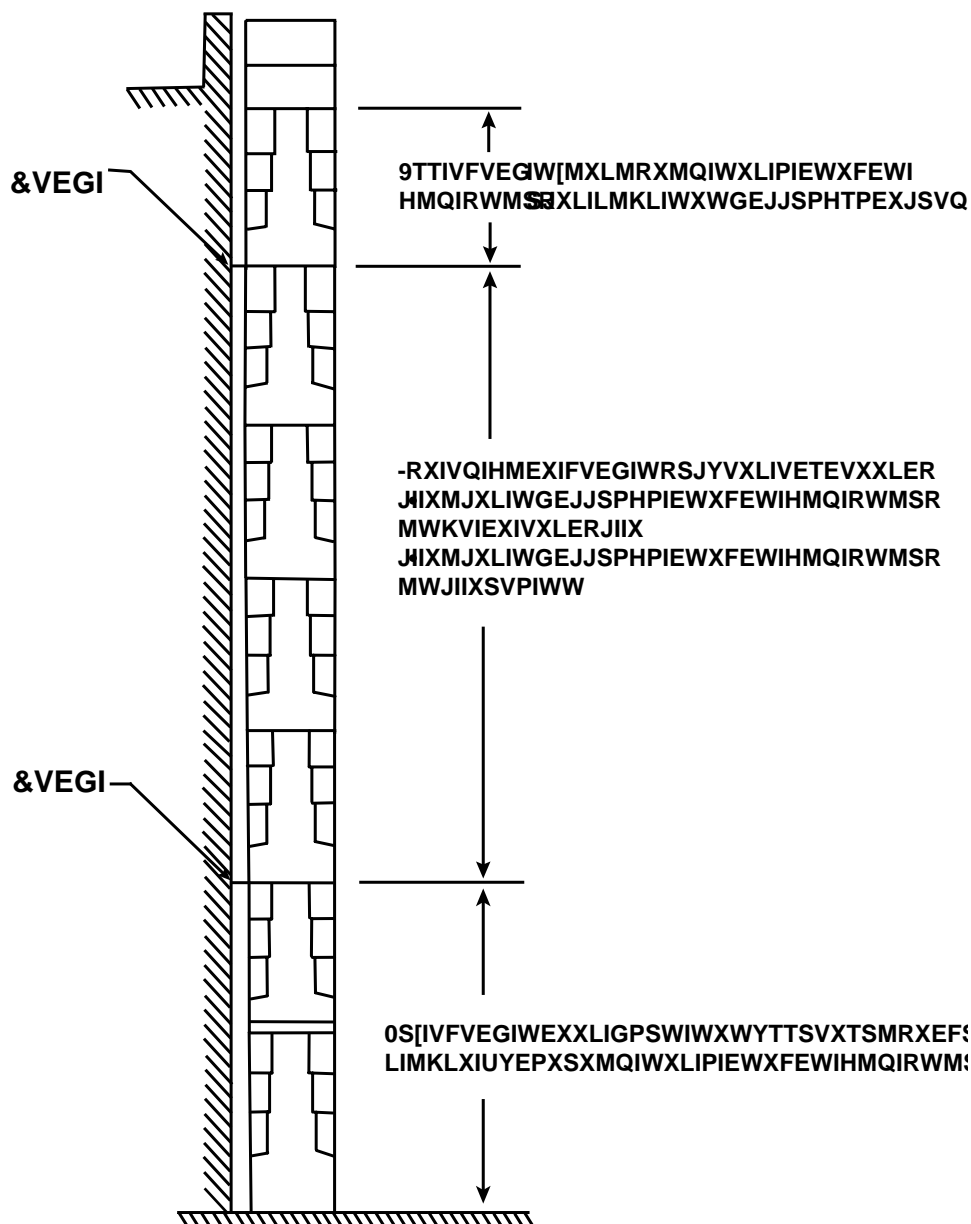
# Supported Scaffolds

WAC 296-874-400

## Rule

WAC 296-874-40040 (Continued)

### Bracing - Tube and Coupler Scaffold



# Supported Scaffolds

WAC 296-874-400

## Rule

**WAC 296-874-40042**

**Meet these requirements when using window jack scaffolds**

### **You must**

- Make sure window jack scaffolds meet all of the following:
  - Are securely attached to the window opening
  - Are used for working only at the window opening the jack is placed through
  - Aren't used:
    - To support planks placed between one window jack and another
    - or**
    - As any other element of scaffolding.

Supported  
Scaffolds

